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Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Reviewed on 09/25/18



Issue date 06/11/15

1 Identification

- · Product identifier
- · Trade name: Brilliant Green Stain, 5% in Alcohol
- · Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information
- · Product description 5% Brilliant Green in denatured alcohol
- · Details of the supplier of the safety data sheet

Manufacturer/Supplier: Dermatologic Lab & Supply, Inc. 608 13th Ave. Council Bluffs, IA USA 51501-6401 Voice: (800) 831-6273 or (712) 323-3269 Fax: (800) 320-9612 or (712) 323-1156 www.delasco.com

· Emergency telephone number: Chemtrec 800-424-9300

· Classification of the substance or mixture

GHS02 Flame

Flam. Lig. 2 H225

Highly flammable liquid and vapor.



GHS08 Health hazard

STOT SE 2 H371-H335 May cause damage to organs. May cause respiratory irritation.



Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2BH320Causes eye irritation.

· Label elements

• **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



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Trade name: Brilliant Green Stain, 5% in Alcohol

· Signal word Danger

· Hazard-determining components of labeling:

Ethyl alcohol Isopropyl alcohol Methanol

· Hazard statements

Highly flammable liquid and vapor.

Causes skin and eye irritation. May cause damage to organs.

May cause respiratory irritation.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves / eye protection / face protection.

Wear protective gloves.

Ground/bond container and receiving equipment.

Keep container tightly closed.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

If on skin: Wash with plenty of water.

IF exposed or concerned: Call a poison center/doctor.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations. · *Classification system:* NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme · *NFPA ratings (scale 0 - 4)*



Health = 2 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

 HEALTH
 Image: Constraint of the sector with the sector withe sector with the sector with the sec

· Hazard(s) not otherwise classified (HNOC): None known

* 3 Composition/information on ingredients

· **Description:** Mixture of substances listed below with nonhazardous additions.

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Trade name: Brilliant Green Stain, 5% in Alcohol

Dangerous Compone	ents:	
CAS: 64-17-5	Ethyl alcohol	60-90%
RTECS: KQ 6300000	♦ Flam. Liq. 2, H225; ♦ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	
	(Conto	l. on page 3
CAS: 633-03-4	Brilliant Green	2-12%
RTECS: BP 6825000	October 2010 Acute Tox. 4, H302	
CAS: 67-63-0	Isopropyl alcohol	2-12%
RTECS: NT 8050000	🚸 Flam. Liq. 2, H225; 0 Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 67-56-1	Methanol	2-12%
RTECS: PC 1400000		
	Tox. 3, H331; 🧇 STOT SE 1, H370	

* 4 First-aid measures

· Description of first aid measures · General information: Immediately

remove any clothing soiled by the product.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. In case of unconsciousness, place patient securely on side position for transportation.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs, consult a doctor.

• *After eye contact:* Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Drink copious amounts of water and provide fresh air. Immediately call a doctor. Do not induce vomiting without medical advice.

Information for doctor:

• *Most important symptoms and effects, both acute and delayed:* No further relevant information available.

• Indication of any immediate medical attention and special treatment needed No further relevant information available.

* 5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture No further relevant information available. ·

Advice for firefighters Use water spray to cool unopened containers.

· Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

* 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Avoid contact with skin, eyes and clothing.

Keep people at a distance and stay upwind.

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Trade name: Brilliant Green Stain, 5% in Alcohol

Keep away from ignition sources Do not inhale gases / fumes /aerosols Treat any fumes as toxic. Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation. Dispose of the collected

material according to regulations.

· Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

* 7 Handling and storage

· Handling:

· Precautions for safe handling

Keep away from heat and direct sunlight. Avoid contact with skin, eyes and clothing

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about protection against explosions and fires:
 Do not spray on a naked flame or any incandescent material.
 Do not cut, grind or weld on container that contains or contained product.
 Keep ignition sources away Do not smoke.
 Protect from heat.
 Protect against electrostatic charges.
- Conditions for safe storage, including any incompatibilities

Store away from acid chlorides, acid anhydrides, strong oxidizing agents, Alkali metals, strong reducing agents, strong acids , Ammonia, Aluminum and Halogenated compounds.

- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· Specific end use(s) No further relevant information available.

* 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

Control parameters

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

· Components with occupational exposure limits:

64-17-5 Ethyl alcohol

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PEL	Long-term value: 1900 mg/m³, 1000 ppm
REL	Long-term value: 1900 mg/m³, 1000 ppm
TLV	Short-term value: 1880 mg/m³, 1000 ppm
	Upper Respiratory Tract irritation
67-6	3-0 Isopropyl alcohol
PEL	Long-term value: 980 mg/m³, 400 ppm
REL	Short-term value: 1225 mg/m³, 500 ppm Long-
	term value: 980 mg/m³, 400 ppm
TLV	Short-term value: 984 mg/m³, 400 ppm
	Long-term value: 492 mg/m³, 200 ppm
	BEI
	6-1 Methanol
	Long-term value: 260 mg/m³, 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm
	Long-term value: 260 mg/m³, 200 ppm
	Skin
ILV	Short-term value: 328 mg/m ³ , 250 ppm Long-
	term value: 262 mg/m³, 200 ppm Skin; BEI, headache, nausea, dizziness, eye damage
Inar	edients with biological limit values:
-	
	3-0 Isopropyl alcohol
BEI	40 mg/L urine
	end of shift at end of workweek
	Acetone (background, nonspecific)
	6-1 Methanol
BEI	15 mg/L
	urine end
	of shift
	Methanol (background, nonspecific)
· Add	itional information: The lists that were valid during the creation of this SDS were used as basis.
	osure controls
	sonal protective equipment:
	eral protective and hygienic measures:
	usual precautionary measures for handling chemicals should be followed.
Keep	o away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:



Suitable respiratory protective device recommended.

· Protection of hands:

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Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:



Tightly sealed goggles

• Body protection:



Protective work clothing

* 9 Physical and chemical properties

Form:	Liquid
Color:	Colorless
Odor:	Alcohol
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	78 °C (172 °F)
· Flash point:	13 °C (55 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	425 °C (797 °F)
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	3.5 Vol %

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Trade name: Brilliant Green Stain, 5% in Alcohol

Upper:	15.0 Vol %
· Vapor pressure @ 20 °C (68 °F):	59 hPa (44 mm Hg)
· Density @ 20 °C (68 °F):	0.776 g/cm³ (6.476 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
 Evaporation rate 	Not determined.
 Solubility in / Miscibility with 	
Water:	Fully miscible.
Partition coefficient (n-octanol/water)): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	95.0 %
VOC content:	95.0 %
Solids content:	5.0 %
• Other information	No further relevant information available.
* 10 Stability and reactivity	

· *Reactivity* No further relevant information available.

- · Chemical stability Stable under normal conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · **Possibility of hazardous reactions** No dangerous reactions known.
- · Conditions to avoid Heat, flame and ignition sources.
- · Incompatible materials:

Acid chlorides, acid anhydrides, strong oxidizing agents, Alkali metals, strong reducing agents, strong acids, Ammonia, Aluminum and Halogenated compounds.

· Hazardous decomposition products: Carbon Oxides and Nitrogen Oxides (NOx).

* 11 Toxicological information

· Information on toxicological effects ·

Acute toxicity:

		are relevant for classification:
64-17-5	Ethyl alcohol	
Oral Inhalativ	LD50 re LC50/4 h	 7060 mg/kg (rat) Remarks: Lungs, Thorax, or Respiration: Other changes. Carcinogenicity - Mouse - Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkin's disease. Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Heart - Irregularities - Based on Human Evidence Central nervous system - Breathing difficulties - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence 20000 mg/l (rat)

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Trade name: Brilliant Green Stain, 5% in Alcohol

	LCOU/96 NOURS	12900-15300 mg/l (Trout)
633-03-4 Brilliant Green		
Oral	LD50	410 mg/kg (rat)
67-63-0 Is	opropyl alcoho	l
Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)
	LC50/96 hours	9640 mg/l (Pimephales)
67-56-1 M	ethanol	
Oral	LD50	5628 mg/kg (rat)
Dermal	LD50	15800 mg/kg (rabbit)
Inhalative	LC50/4 h	128.2 mg/l (rat)
	LC50/96 hours	15400 mg/l (Trout)
· Primary i	rritant effect: ·	

· on the eye:

Irritating effect. Causes

serious eye irritation.

· Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

67-63-0 Isopropyl alcohol

• NTP (National Toxicology Program)

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12 Ecological information

· Toxicity

· Aquatic toxicity:

64-17-5 Ethyl alcohol

EC50 34900 mg/l (daphnia)

67-63-0 Isopropyl alcohol

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Trade name: Brilliant Green Stain, 5% in Alcohol

EC50 6851 mg/l (Green algae)

5102 mg/l (Water flea)

67-56-1 Methanol

EC50 22000 mg/l (Green algae)

- 10000 mg/l (daphnia)
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information

available. • Mobility in soil No further relevant information available. •

Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods ·

Recommendation:

Observe all federal, state and local environmental regulations when disposing of this material. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

* 14 Transport information

 UN-Number DOT, ADR, IMDG, IATA UN proper shipping name DOT ADR 	UN1993 Methanol Flammable liquids, n.o.s. (Ethanol, Methanol) UN1993 Flammable liquids, n.o.s. (Ethanol, Methanol)
· IMDG	FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), METHANOL)
·IATA	FLAMMABLE LIQUID, N.O.S. (ETHANOL, METHANOL)
 Transport hazard class(es) 	
DOT	
· Class	3 Flammable liquids
· Label	3
· ADR	

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Trade name: Brilliant Green Stain, 5% in Alcohol



· Label

3 (F1) Flammable liquids 3

· IMDG, IATA		
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	t y Data Sheet (SDS) dard ସିବଫଳବାର୍ବନତ!inubidity) and GHS Rev 03.	
• Label	3	
lssue date 06/1115 Packing group	Reviewed on 09/2	25/18
DOT, ADR, IMDG, IATA Trade name: Brilliant Green Stain, 5% in Alc Environmental hazards:	cohol	
 Special precautions for user Danger code (Kemler): 	Warning: Flammable liquids 33	
· EMS Number:	55 F-E, S-E	
• Transport in bulk according to Annex II		
of MARPOL73/78 and the IBC Code	Not applicable.	
• Transport/Additional information:		
DOT		
· Quantity limitations	On passenger aircraft/rail: 5 L	
400	On cargo aircraft only: 60 L	· · · · · · · · · · · · · · · · · · ·
· ADR · Excepted quantities (EQ)	Code: E2	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 500 ml	
·IMDG		
Limited quantities (LQ)	5L	
 Excepted quantities (EQ) 	Code: E2 Maximum pat quantity par inpar paakaging: 20 ml	
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	
· UN "Model Regulation":	UN1993, Flammable liquids, n.o.s. (Ethanol, Methanol), 3, II	
15 Regulatory information	· · · · ·	
· Salety, nearth and environmental regulat	tions/legislation specific for the substance or mixture	
· Section 355 (extremely hazardous substar	nces):	
None of the ingredients are listed.		
· Section 313 (Specific toxic chemical listi	ings):	
67-63-0 Isopropyl alcohol		
67-56-1 Methanol		
• TSCA (Toxic Substances Control Act):		
All ingredients are listed.		
California Proposition 65		
Chemicals known to cause cancer:		
None of the ingredients are listed.		
Chemicals known to cause reproductive to	oxicity for females:	
None of the ingredients are listed.		
Chemicals known to cause reproductive to	oxicity for males:	
None of the ingredients are listed.		
Chemicals known to cause development	tal toxicity:	
64-17-5 Ethyl alcohol 67-56-1 Methanol		
Carcinogenic categories EPA (Environmental Protection Agency)		
None of the ingredients are listed.		
• TLV (Threshold Limit Value established I	by ACGIH)	
,	• /	
64-17-5 Ethyl alcohol		A3

A4

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67-63-0 Isopropyl alcohol

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



GHS02 GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

Ethyl alcohol Isopropyl alcohol Methanol

Hazard statements

Highly flammable liquid and vapor.

Causes skin and eye irritation. May cause damage to organs.

May cause respiratory irritation. • *Precautionary statements*

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves / eye protection / face protection.

Wear protective gloves.

Ground/bond container and receiving equipment.

Keep container tightly closed.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

If on skin: Wash with plenty of water.

IF exposed or concerned: Call a poison center/doctor.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· State Right to Know

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CAS: 64-17-5	Ethyl alcohol	60-90%
RTECS: KQ 6300000	♦ Flam. Liq. 2, H225; ♦ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	*
CAS: 633-03-4	Brilliant Green	2-12%
RTECS: BP 6825000	Acute Tox. 4, H302	
CAS: 67-63-0	Isopropyl alcohol	2-12%
	🛞 Flam. Liq. 2, H225; 0 Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 67-56-1 RTECS: PC 1400000	Methanol	2-12%
	🛞 Flam. Liq. 2, H225; 🞯 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute	
	Tox. 3, H331; 🕚 STOT SE 1, H370	
All ingredients are liste		

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

6 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision 06/11/15 / ·

09/25/18 Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1

STOT SE 2: Specific target organ toxicity - Single exposure, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

• * Data compared to the previous version altered.

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